

Roland von Glasow

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

5,145
citations

126708

33
h-index

174990

52
g-index

54
all docs

54
docs citations

54
times ranked

5433
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric composition change – global and regional air quality. <i>Atmospheric Environment</i> , 2009, 43, 5268-5350.	1.9	714
2	Atmospheric Chemistry of Iodine. <i>Chemical Reviews</i> , 2012, 112, 1773-1804.	23.0	482
3	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 1999, 32, 375-395.	1.4	376
4	Tropospheric Halogen Chemistry: Sources, Cycling, and Impacts. <i>Chemical Reviews</i> , 2015, 115, 4035-4062.	23.0	344
5	Reactive halogen chemistry in the troposphere. <i>Chemical Society Reviews</i> , 2012, 41, 6448.	18.7	327
6	Halogen activation via interactions with environmental ice and snow in the polar lower troposphere and other regions. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6237-6271.	1.9	209
7	The effects of volcanic eruptions on atmospheric chemistry. <i>Chemical Geology</i> , 2009, 263, 131-142.	1.4	191
8	Modeling halogen chemistry in the marine boundary layer 1. Cloud-free MBL. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 9-1-ACH 9-16.	3.3	151
9	Reactive halogen chemistry in volcanic plumes. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	144
10	Atmospheric chemistry in volcanic plumes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6594-6599.	3.3	138
11	Estimate of nitrogen oxide emissions from shipping by satellite remote sensing. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	130
12	Megacities and Large Urban Agglomerations in the Coastal Zone: Interactions Between Atmosphere, Land, and Marine Ecosystems. <i>Ambio</i> , 2013, 42, 13-28.	2.8	117
13	Modeling chemistry in and above snow at Summit, Greenland – Part 1: Model description and results. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4899-4914.	1.9	114
14	HOCl and Cl ₂ observations in marine air. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 7617-7628.	1.9	109
15	Quantifying the contribution of marine organic gases to atmospheric iodine. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	105
16	Inorganic chlorine and bromine in coastal New England air during summer. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	93
17	Modeling halogen chemistry in the marine boundary layer 2. Interactions with sulfur and the cloud-covered MBL. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 2-1-ACH 2-12.	3.3	91
18	The role of BrNO ₃ in marine tropospheric chemistry: A model study. <i>Geophysical Research Letters</i> , 1999, 26, 2857-2860.	1.5	88

#	ARTICLE	IF	CITATIONS
19	A global model of tropospheric chlorine chemistry: Organic versus inorganic sources and impact on methane oxidation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,271.	1.2	86
20	Variation of sea salt aerosol pH with relative humidity. <i>Geophysical Research Letters</i> , 2001, 28, 247-250.	1.5	64
21	The influence of meteorological factors and biomass burning on surface ozone concentrations at Tanah Rata, Malaysia. <i>Atmospheric Environment</i> , 2013, 70, 435-446.	1.9	64
22	Modeling chemistry in and above snow at Summit, Greenland – Part 2: Impact of snowpack chemistry on the oxidation capacity of the boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6537-6554.	1.9	63
23	Idealized WRF model sensitivity simulations of sea breeze types and their effects on offshore windfields. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 443-461.	1.9	62
24	Reactive chlorine in the marine boundary layer in the outflow of polluted continental air: A model study. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	61
25	Pollution-enhanced reactive chlorine chemistry in the eastern tropical Atlantic boundary layer. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	61
26	Are CH ₂ O measurements in the marine boundary layer suitable for testing the current understanding of CH ₄ photooxidation?: A model study. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 3-1.	3.3	54
27	1980–2010 Variability in U.K. Surface Wind Climate. <i>Journal of Climate</i> , 2013, 26, 1172-1191.	1.2	54
28	Retrieved tropospheric and stratospheric BrO columns over Lauder, New Zealand. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	53
29	Multiphase Halogen Chemistry in the Tropical Atlantic Ocean. <i>Environmental Science & Technology</i> , 2012, 46, 10429-10437.	4.6	50
30	Interaction of radiation fog with tall vegetation. <i>Atmospheric Environment</i> , 1999, 33, 1333-1346.	1.9	45
31	Longpath DOAS observations of surface BrO at Summit, Greenland. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9899-9910.	1.9	42
32	Uncertainties in gas-phase atmospheric iodine chemistry. <i>Atmospheric Environment</i> , 2012, 57, 219-232.	1.9	41
33	Evolving research directions in Surface Ocean - Lower Atmosphere (SOLAS) science. <i>Environmental Chemistry</i> , 2013, 10, 1.	0.7	40
34	Ozone depletion in tropospheric volcanic plumes. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	37
35	Importance of reactive halogens in the tropical marine atmosphere: a regional modelling study using WRF-Chem. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 3161-3189.	1.9	36
36	Bromide content of sea-salt aerosol particles collected over the Indian Ocean during INDOEX 1999. <i>Journal of Geophysical Research</i> , 2002, 107, INX2 31-1.	3.3	33

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37	High temporal resolution Br₂, BrCl and BrO observations in coastal Antarctica. Atmospheric Chemistry and Physics, 2013, 13, 1329-1343.	1.9	33
38	Sun, sea and ozone destruction. Nature, 2008, 453, 1195-1196.	13.7	29
39	Pollution meets sea salt. Nature Geoscience, 2008, 1, 292-293.	5.4	28
40	Seaweed, Iodine, New Particles and Atmospheric Chemistry – The Current State of Play. Environmental Chemistry, 2005, 2, 243.	0.7	22
41	Daytime OIO in the Gulf of Maine. Geophysical Research Letters, 2007, 34, .	1.5	21
42	Modelling the multiphase near-surface chemistry related to ozone depletions in polar spring. Journal of Atmospheric Chemistry, 2009, 64, 77-105.	1.4	20
43	Wider role for airborne chlorine. Nature, 2010, 464, 168-169.	13.7	20
44	Climate-induced change in biogenic bromine emissions from the Antarctic marine biosphere. Global Biogeochemical Cycles, 2012, 26, .	1.9	19
45	Short-Lived Trace Gases in the Surface Ocean and the Atmosphere. Springer Earth System Sciences, 2014, , 1-54.	0.1	17
46	Source identification and budget analysis on elevated levels of formaldehyde within the ship plumes: a ship-plume photochemical/dynamic model analysis. Atmospheric Chemistry and Physics, 2010, 10, 11969-11985.	1.9	16
47	Comment on "Reactions at Interfaces As a Source of Sulfate Formation in Sea-Salt Particles" (II). Science, 2004, 303, 628c-628.	6.0	13
48	A look at the CLAW hypothesis from an atmospheric chemistry point of view. Environmental Chemistry, 2007, 4, 379.	0.7	11
49	New Directions: Correspondence on "Enhancing the natural cycle to slow global warming". Atmospheric Environment, 2008, 42, 4803-4805.	1.9	8
50	Overview of the 2007 and 2008 campaigns conducted as part of the Greenland Summit Halogen-HO_x Experiment (GSHOX). Atmospheric Chemistry and Physics, 2012, 12, 10833-10839.	1.9	6
51	The Influence of Stratospheric Sulphate Aerosol Deployment on the Surface Air Temperature and the Risk of an Abrupt Global Warming. Atmosphere, 2010, 1, 62-84.	1.0	5
52	Consumption of reactive halogen species from sea-salt aerosol by secondary organic aerosol: slowing down the bromine explosion. Environmental Chemistry, 2015, 12, 476.	0.7	5